

PATENT CLAIMS:

1 – 12 (canceled)

13. (new) An oxidation resistant component, comprising:
a substrate; and
a protective layer, comprising:

an intermediate MCrAlY layer near the substrate wherein M is an element selected from the group consisting of Co, Fe, and Ni;

an outer layer arranged on the intermediate MCrAlY layer zone and comprising the elements Al in the range of 21wt% to 37wt%, Ni, Chromium, and Cobalt and having the structure of the phase β -NiAl.

14. (new) The oxidation resistant component according to claim 13, wherein the Chromium and Cobalt in the outer layer do not destroy the phase β -NiAl.

15. (new) The oxidation resistant component according to claim 13, wherein the protective layer consists of two separated layers.

16. (new) The oxidation resistant component according to claim 13, wherein the component is a turbine component having application in a gas turbine.

17. (new) The oxidation resistant component according to claim 13, wherein a continuously graded concentration of the composition of the intermediate and outer layers is inside the protective layer.

18. (new) The oxidation resistant component according to claim 13, wherein the outer layer is thinner than the intermediate layer.

19. (new) The oxidation resistant component according to claim 13, wherein the intermediate MCrAlY-layer has a composition (in wt%): 10% – 50% Co, 10% – 40% Cr, 6% – 15% Al, 0,02% – 0,5% Y, Ni base.

20. (new) The oxidation resistant component according to claim 13, wherein the intermediate MCrAlY-layer or the outer layer contains an additional element.

21. (new) The oxidation resistant component according to claim 20, wherein the additional element is selected from the group consisting of (in wt%): 0.1% - 2% Si, 0.2% - 8% Ta, and 0.2% - 5% Re.

22. (new) The oxidation resistant component according to claim 13, wherein the Yttrium of MCrAlY of the intermediate MCrAlY layer or the outer layer is added and partly replaced by an element out of the group Hf, Zr, La, Ce and other elements of the Lanthanide group.

23. (new) The oxidation resistant component according to claim 13, wherein the Yttrium of MCrAlY of the intermediate MCrAlY layer or the outer layer is added or partly replaced by an element out of the group Hf, Zr, La, Ce and other elements of the Lanthanide group.

24. (new) The oxidation resistant component according to claim 13, wherein an element out of the group Hf, Zr, La, Ce, and other elements of the Lanthanide group is added to the outer layer.

25. (new) The oxidation resistant component according to claim 24, wherein the maximum amount of further elements is 1wt%.

26. (new) The oxidation resistant component according to claim 13, wherein the MCrAlY layer contains Ti and Sc.

27. (new) The oxidation resistant component according to claim 13, wherein the MCrAlY layer contains Ti or Sc.

28. (new) The oxidation resistant component according to claim 13, wherein a thermal barrier coating is formed on the outer layer.

29. (new) The oxidation resistant component according to claim 28, wherein a heat treatment prior to applying the thermal barrier coating is accomplished in an atmosphere with a low oxygen partial pressure in the range of 10^{-7} to 10^{-15} bar.

30. (new) An oxidation resistant turbine component in a combustion turbine, comprising:

a substrate; and

a protective layer, comprising:

an intermediate MCrAlY layer near the substrate wherein M is an element selected from the group consisting of Co, Fe, and Ni;

an outer layer arranged on the intermediate MCrAlY layer zone and comprising the elements Al in the range of 21wt% to 37wt%, Ni, Chromium, and Cobalt and having the structure of the phase β -NiAl.

31. (new) The oxidation resistant component according to claim 30, wherein the intermediate MCrAlY-layer has a composition (in wt%): 10% – 50% Co, 10% – 40% Cr, 6% – 15% Al, 0,02% – 0,5% Y, Ni base.

32. (new) The oxidation resistant component according to claim 30, wherein the Yttrium of MCrAlY of the intermediate MCrAlY layer or the outer layer is added or partly replaced by an element out of the group Hf, Zr, La, Ce and other elements of the Lanthanide group.